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DATE: 08/22/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/072,077A TIME: 15:56:46

Input Set : A:\Uco-1215.app

Output Set: N:\CRF3\08222002\J072077A.raw

ENTERED 3 <110> APPLICANT: Gallie, Daniel R. Young, Todd E. The Regents of the University of California 7 <120> TITLE OF INVENTION: Generation of Multiple Embryo Maize 9 <130> FILE REFERENCE: 023070-121500US 11 <140> CURRENT APPLICATION NUMBER: US 10/072,077A 12 <141> CURRENT FILING DATE: 2002-02-07 14 <160> NUMBER OF SEQ ID NOS: 1 16 <170> SOFTWARE: PatentIn Ver. 2.1 18 <210> SEO ID NO: 1 19 <211> LENGTH: 3183 20 <212> TYPE: DNA 21 <213> ORGANISM: Arabidopsis thaliana 23 <220> FEATURE: 24 <221> NAME/KEY: promoter 25 <222> LOCATION: (1)..(3183) 26 <223> OTHER INFORMATION: senescence-associated gene 12-1 (SAG12-1) promoter 28 <400> SEQUENCE: 1 29 gatatctctt tttatattca aacaataagt tgagatatgt ttgagaagag gacaactatt 60 30 ctcgtggagc accgagtctg ttttatatta gaaacccgat tgttattttt agactgagac 120 31 aaaaaagtaa aatcgttgat tgttaaaatt taaaattagt ttcatcacgt ttcgataaaa 180 32 aaatgattag ttatcatagc taatatagca tgattctaaa tttgtttttt gacacccttt 240 33 ttttctctct ttggtgtttt cttaacatta gaagaaccca taacaatgta cgttcaaatt 300 34 aattaaaaac aatatttcca agttttatat acgaaacttg tttttttaat gaaaacagtt 360 35 gaatagttga ttatgaatta gttagatcaa tactcaatat atgatcaatg atgtatatat 420 36 atgaactcag ttgttataca agaaatgaaa atgctattta aataccgatc atgaagtgtt 480 37 aaaaagtgtc agaatatgac atgaagcgtt ttgtcctacc gggtatcgag ttataggttt 540 38 ggatctctca agaatatttt gggccatatt agttatattt gggcttaagc gttttgcaaa 600 39 gagacgagga agaaagattg ggtcaagtta acaaaacaga gacactcgta ttagttggta 660 40 ctttggtagc aagtcgattt atttgccagt aaaaacttgg tacacaactg acaactcgta 720 41 tcgttattag tttgtacttg gtacctttgg ttaagaaaaa gttgatatag ttaaatcagt 780 42 tgtgttcatg aggtgattgt gatttaattt gttgactagg gcgattcctt cacatcacaa 840 43 taacaaagtt ttatagattt ttttttataa catttttgcc acgcttcgta aagtttggta 900 44 tttacaccgc atttttccct gtacaagaat tcatatatta tttatttata tactccagtt 960 45 gacaattata agtttataac gtttttacaa ttatttaaat accatgtgaa gatccaagaa 1020 46 tatgtcttac ttcttctttg tgtaagaaaa ctaactatat cactataata aaataattct 1080 47 aatcattata tttgtaaata tgcagttatt tgtcaatttt gaatttagta ttttagacgg 1140 48 ttatcactic agccaaatat gatttggatt taagtccaaa atgcaatttc gtacgtatcc 1200 49 ctcttgtcgt ctaatgatta tttcaatatt tcttatatta tccctaacta cagagctaca 1260 50 tttatattgt attctaatga cagggaaact ttcatagaga ttcagataga tgaaattggt 1320 51 qqqaaacatc attqaacaqq aaacttttag caaatcatat cgatttatct acaaaagaat 1380 52 acttagcqta atgaagttca cttgttgtga atgactatga tttgatcaaa ttagttaatt 1440

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54 tgtgaataaa cagaatcttt gaattcaaac tatttgatta gtgaaaagac aaaagaagat 1560 55 teettettt tateteatta eteattiea teetteaa etacaagaa 1620 56 aaataaacat gtacqtaact acqtatcagc atgtaaaagt attttttcc aaataattta 1680 57 tactcatgat agatttttt tttttgaaat gtcaattaaa aatgctttct taaatattaa 1740 58 ttttaattaa ttaaataagg aaatatattt atgcaaaaca tcatcaacac atatccaact 1800 59 tcgaaaatct ctatagtaca caagtagaga aaataaattt tactagatac aaacttccta 1860 60 atcatcaatt ataaatgttt acaaaactaa ttaaacccac cactaaaatt aactaaaaat 1920 61 ccgagcaaag tgagtgaaca agacttgatt tcaggttgat gtaggactaa aatggctacg 1980 62 tatcaaacat caacgatcat ttagttatgt atgaatgaat gtagtcatta cttgtaaaac 2040 63 aaaaatgctt tgatttggat caatcacttc atgtgaacat tagcaattac atcaacctta 2100 64 ttttcactat aaaaccccat ctcagtaccc ttctgaagta atcaaattaa gagcaaaagt 2160 65 catttaactt tcctaaaacc atggaccctg catctaattt tcggtccaac ttgcacagga 2220 66 aagacgacga ccgcgatagc tcttgcccag cagacagggc ttccagtcct ttcgcttgat 2280 67 cgggtccaat cgtgtcctca actatcaacc ggaageggac gaccaacagt ggaagaactg 2340 68 aaaqqaacga cgcgtctcta ccttgatgat cggcctctgg tggagggtat catcgcagcc 2400 69 aagcaagctc atcataggct gatcgaggag gtgtataatc atgaggccaa cggcggctt 2460 70 attettqaqq qaqqatecae eteqttqete aactqeatqq eqeqaaacaq etattqqaqt 2520 71 gcagattttc qttqqcatat tattcqccac aaqttacccq accaaqaqac cttcatqaaa 2580 72 gcggccaagg ccagagttaa gcagatgttg caccccgctg caggccattc tattattcaa 2640 73 qaqttqqttt atctttqqaa tqaacctcgg ctgaqqccca ttctqaaaqa qatcqatqqa 2700 74 tategatatg ceatgttgtt tgctageeag aaccagatea eggeagatat getattgeag 2760 75 cttqacqcaa atatqqaaqq taaqttqatt aatqqqatcq ctcaqqaqta tttcatccat 2820 76 gegegecaac aggaacagaa attececcaa gttaacgcag cegetttega eggattegaa 2880 77 ggtcatccgt tcggaatgta ttaggttacg ccagccctga gctcgatcgt tcaaacattt 2940 78 ggcaataaag tttcttaaga ttgaatcctg ttgccggtct tgcgatgatt atcatataat 3000 79 ttctgttgaa ttacgttaag catgtaataa ttaacatgta atgcatgacg ttatttatga 3060 80 gatgggtttt tatgattaga gtcccgcaat tatacattta atacgcgata gaaaacaaaa 3120 81 tatggcgcgc aaactgggat aaattatcgc gcgcggtgtc atctatgtta ctagatcgaa 3180 3183 82 ttc

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